## **EAST Search History**

## **EAST Search History (Prior Art)**

| Ref<br>#   | Hits     | Search Query                         | DBs   | Default<br>Operator | Plurals | Time Stamp          |
|------------|----------|--------------------------------------|---|---------------------|---------|---------------------|
| S1         | 9        | ((DENNIS) near2 (CLEARY)).INV.       | US-PGPUB;<br>USPAT  | ADJ                 | ON      | 2009/10/18<br>12:22 |
| S2         | 4        | ((HAYIM) near2 (PENSO)).INV.         | US-PGPUB;<br>USPAT  | ADJ                 | ON      | 2009/10/18<br>12:22 |
| S3         | 12       | ((CHRISTOPHER) near2 (ZAPPALA)).INV. | US-PGPUB;<br>USPAT  | ADJ                 | ON      | 2009/10/18<br>12:22 |
| <b>S</b> 4 | 754      | ANDREW CORPORATION                   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2009/10/18<br>12:25 |
| <b>S</b> 5 | 230965   | ANDREW                               | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2009/10/18<br>12:25 |
| <b>S</b> 6 | 28011457 | @ad<="20040128"                      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2009/10/18<br>12:26 |
| <b>S</b> 8 | 5603     | (375/136,147,149,152,343,345).ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2009/10/18<br>12:27 |

| S9  | 2437  | (455/136,138,140,232.1,240.1,250.1,245.1,249.1).ccls.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>12:38 |
|-----|-------|---|---|-----|----|---------------------|
| S10 | 696   | (327/308,179).cds.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>12:39 |
| S11 | 143   | ((selectiv\$4 or choos\$4) near3 attenuat\$4) same (analog near3 signal)                                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>12:43 |
| S12 | 2     | ((selectiv\$4 or choos\$4) near3 attenuat\$4) same (analog with (spread \$2spectrum or (spread sprectrum))) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>12:44 |
| S13 | 10846 | (attenuat\$4) same ("ADC" or "A/D" or "A to D" or (analog near3 digital near3 converter))                   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>12:44 |
| S14 | 7806  | (attenuat\$4) same ("ADC" or "A/D" or "A to D" or (analog near3 digital near3 converter)) and filter\$3     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>12:45 |

| S15  | 0  | (attenuat\$4) same (("ADC" or "A/D" or "A to D" or (analog near3 digital near3 converter)) near5 (spread\$2spectrum or (spread sprectrum))) and filter\$3                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>12:46 |
|------|----|---|---|-----|----|---------------------|
| S16  | 19 | filter\$3 and (compensat\$4 near3 interference) and (analog with (spread \$2spectrum or (spread sprectrum)) )   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>12:47 |
| S17  | 0  | 33  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>12:48 |
| S18  | 2  | (variable near3 attenuat\$4) and ("ADC" or "A/D" or "A to D" or (analog near3 digital near3 converter)) and (interference near3 compensat\$4 near3 filter)                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>12:50 |
| S19  | 2  | (variable near3 attenuat\$4) and ("ADC" or "A/D" or "A to D" or (analog near3 digital near3 converter)) and (interference near3 compensat\$4 near3 filter)                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>12:50 |
| \$20 | 1  | (variable near3 attenuat\$4) and ("ADC" or "A/D" or "A to D" or (analog near3 digital near3 converter)) and (interference near3 compensat\$4 near3 filter) and de\$1spread\$4 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>12:51 |

| S21 | 2   | filter\$4 same compensat\$4 same ( off\$1 channel near3 interference)                                | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18          |
|-----|-----|--|---|-----|----|---------------------|
| S22 | 414 | attenuat\$4 same ((negative or minus) same ((Signal near3 noise near3 ratio) or "snr" or "S/N"))     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>13:19 |
| S23 | 37  | attenuat\$4 same ((negative or minus) near4 ((Signal near3 noise<br>near3 ratio) or "snr" or "S/N")) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>13:20 |
| S24 | 28  | (dynamic near3 range) same (negative with ((Signal near3 noise near3 ratio) or "snr" or "S/N"))      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>13:20 |
| S25 | 56  | attenuat\$4 same amplitude same (upper near3 threshold)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>13:21 |
| S26 | 0   | ("not" near3 attenuat\$4) same amplitude same (low\$4near3 threshold)                                | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>13:21 |

| \$27       | 0   | ("not" near3 attenuat\$4) same amplitude same (low\$4 near3 threshold)           | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>13:21 |
|------------|-----|--|---|-----|----|---------------------|
| S28        | 0   | transition same ("not" near3 attenuat\$4) same (duration or period or time)      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>13:23 |
| \$29       | 919 | transition same ( attenuat\$4) same (duration or period or time) and (threshold) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>13:23 |
| <b>S30</b> | 1   | S13 and S22 and S5   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>13:24 |
| <b>S31</b> | 5   | \$29 and \$14 and \$8  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>13:24 |
| <b>S33</b> | 0   | 99 and \$16  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>13:25 |

| <b>S</b> 34 | 1  | S9 and S23    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>13:25 |
|-------------|----|---------------|---|-----|----|---------------------|
| \$35        | 0  | \$23 and \$24 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>13:25 |
| <b>S</b> 36 | 2  | \$25 and \$29 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>13:26 |
| \$37        | 21 | S10 and S14   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>13:26 |
| \$38        | 0  | \$29 and \$37 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/10/18<br>13:26 |

## **EAST Search History (Interference)**

| Ref# | Hits | Search Query       | DBs            |     |    | Time Stamp          |
|------|------|--------------------|----------------|-----|----|---------------------|
| S40  |      | @ad<= "20040128"   | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:26 |
| S41  | 494  | ANDREW CORPORATION | USPAT;<br>UPAD |     | ON | 2009/10/18<br>12:26 |

| S42 | 136224 | ANDREW   | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:26 |
|-----|--------|--|----------------|-----|----|---------------------|
| S44 | 3854   | (375/136,147,149,152,343,345).ccls.  | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:27 |
| S45 | 1453   | (455/136,138,140,232.1,240.1,250.1,245.1,249.1).cdls.  | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:38 |
| S46 | 446    | (327/308,179).ccls.  | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:39 |
| S47 | 90     | ((selectiv\$4 or choos\$4) near3 attenuat\$4) same (analog near3 signal)   | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:43 |
| S48 | 0      | ((selectiv\$4 or choos\$4) near3 attenuat\$4) same attenuat\$4 with (analog with (spread\$2spectrum or (spread sprectrum)) )   | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:44 |
| S49 | 0      | ((selectiv\$4 or choos\$4) near3 attenuat\$4) same (analog with (spread \$2spectrum or (spread sprectrum)) )   | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:44 |
| S50 | 6020   | (attenuat\$4) same ("ADC" or "A/D" or "A to D" or (analog near3 digital near3 converter))  | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:44 |
| S51 | 2558   | (attenuat\$4) with ("ADC" or "A/D" or "A to D" or (analog near3 digital near3 converter))  | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:45 |
| S52 | 1990   | (attenuat\$4) with ("ADC" or "A/D" or "A to D" or (analog near3 digital near3 converter)) and filter\$4  | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:45 |
| S53 | 4807   | (attenuat\$4) same ("ADC" or "A/D" or "A to D" or (analog near3 digital near3 converter)) and filter\$3  | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:45 |
| S54 | 0      | ((selectiv\$4 or choos\$4) near3 attenuat\$4) same (analog with (spread \$2spectrum or (spread sprectrum)) )   | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:45 |
| S55 | 0      | (attenuat\$4) same (("ADC" or "A/D" or "A to D" or (analog near3 digital near3 converter)) near5 (spread\$2spectrum or (spread sprectrum)) ) and filter\$3                                       | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:46 |
| S56 | 12     | filter\$3 and (compensat\$4 near3 interference) and (analog with (spread \$2spectrum or (spread sprectrum)) )  | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:47 |
| S57 | 0      | (attenuat\$4 near3 determinat\$4) same (amplitude with ("ADC" or "A/D" or "A to D" or (analog near3 digital near3 converter)) near5 (spread \$2spectrum or (spread sprectrum)) ) and (filter\$4) | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:48 |
| S58 | 2      | (variable near3 attenuat\$4) and ("ADC" or "A/D" or "A to D" or (analog near3 digital near3 converter)) and (interference near3 compensat\$4 near3 filter)                                       | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:50 |

| S59 | 0   | (variable near3 attenuat\$4) and ("ADC" or "A/D" or "A to D" or (analog near3 digital near3 converter)) and (interference near3 compensat\$4 near3 filter) and de\$1spread\$4 | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>12:51 |
|-----|-----|---|----------------|-----|----|---------------------|
| S60 | 0   | filter\$4 same compensat\$4 same ( off\$1 channel near3 interference)   | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>13:18 |
| S61 | 126 | attenuat\$4 same ((negative or minus) same ((Signal near3 noise near3 ratio) or "snr" or "S'N"))  | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>13:19 |
| S62 | 19  | attenuat\$4 same ((negative or minus) near4 ((Signal near3 noise near3 ratio) or "snr" or "S'N"))   | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>13:19 |
| S63 | 14  | (dynamic near3 range) same (negative with ((Signal near3 noise near3 ratio) or "snr" or "S'N"))   | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>13:20 |
| S64 | 31  | attenuat\$4 same amplitude same (upper near3 threshold)   | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>13:21 |
| S65 | 0   | ("not" near3 attenuat\$4) same amplitude same (low\$4 near3 threshold)  | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>13:21 |
| S66 | 0   | transition same ("not" near3 attenuat\$4) same (duration or period or time)   | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>13:23 |
| S67 | 536 | (transition same ( attenuat\$4)) same (duration or period or time) and (threshold)  | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>13:23 |
| S68 | 0   | S42 and S50 and S61   | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>13:27 |
| S70 | 0   | S44 and S53 and S56 and S62   | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>13:28 |
| S71 | 0   | S45 and S64   | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>13:28 |
| S72 | 1   | S46 and S67   | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>13:28 |
| S73 | 0   | S56 and S61 and S62 and S64 and S67   | USPAT;<br>UPAD | ADJ | ON | 2009/10/18<br>13:29 |

## 10/18/2009 1:40:22 PM

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